CRS/AWIPS TIME SYNCHRONIZATION PROBLEM

With the installation of the CRS 10.0.1 patch, the CRS MPs and FEPs are no longer time synchronized with AWIPS. The problem is the primary AWIPS processor we look for now is px1, followed in order by px2, dx1, dx2, ds1, and ds2. Only the ds's currently support the rdate function CRS uses to request the date/time. If you click on Maintenance and then Site Configuration, you'll note the IP address in the AWIPS net address is probably that of px1. Each AWIPS processor is listed in the file /crs/data/SS/CRS_config.xml with a priority. **Normally, your CRS MPs should not time drift, so the following procedure is optional. If they do drift significantly, you may wish to consider ordering new MPs. The time also can be reset manually using the Date/Time Update window from the Maintenance Menu.** To get CRS to time synchronize with the DS's, do the following:

1. You need to stop CRS and change the priorities in the .xml file so that DS1=1, DS2=2, PX1=5, and PX2=6. Make sure you make the change on both 0MP and 5MP. (We recommend using the vi editor to make the changes to avoid having display terminal difficulties if you rsh to 5MP.)

2. Click on any white space to display the XCRS_SITE Utility window. Click on Select ASCII Site Setup and select the daily.ASC file. Click on Initialize System Configuration Only and then click on Start Site Configure.

3. Restart CRS. After it comes all the way up, check the Site Configuration again and note that the AWIPS net address is now DS1.

We anticipate the problem with the non-support of rdate on the newer AWIPS processors will be corrected in AWIPS OB7.1. Meanwhile, the next CRS Build (11.0) will implement a more comprehensive check of AWIPS processor support for rdate before requesting an updated date/time.

ADDITIONAL IMPORTANT NOTE:

A couple of sites recently have encountered problems switching master from 0mp to 5mp. The problem stemmed from incorrect ownership and/or permissions on the /crs/data/SS/CRS_config.xml file. Since in both cases, the problem was only on 5mp, it would not be apparent until a master processor switch was requested.

Please take a moment to check both 0mp and 5mp for this problem at your site.

If you do a listing of /crs/data/SS/CRS_config.xml (**ls -l /crs/data/SS/CRS_config.xml**), you should see the following:

-rw-rw-r-- 1 crs   crs   2026 Nov 1 07:34 /crs/data/SS/CRS_config.xml

(The value of both owner and group is set to crs, and the permissions are rw-rw-r)

This should be true on both 0mp and 5mp. If either file has any other ownership or permissions, please correct the situation as follows:

su - root
(enter root password when asked)

cd /crs/data/SS

chmod 664 CRS_config.xml

chown crs:crs CRS_config.xml

ls -l CRS_config.xml

   It should respond with this:

-rw-rw-r-- 1 crs   crs   2026 Nov 1 07:34 /crs/data/SS/CRS_config.xml